Floorguard Products

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MV 2112

MOISTURE MITIGATION PRIMER

PRODUCT OVERVIEW

MV 2112 is a two-component epoxy-based Class I Vapor Diffusion Retarder composed of 100% solids, designed for exceptional moisture vapor management, featuring a perm rating of <0.10 and capable of resisting moisture vapor transmission levels of up to 20 lbs/24hr/1000 ft^2 according to ASTM F1869, as well as substrate relative humidity levels of up to 95% in accordance with ASTM F2170.

It can be applied beneath all Floorguard resinous coating systems or conventional flooring applications where a moisture mitigation primer is necessary. MV 2112 complies with the ASTM F3010 standards for vapor permeance at the suggested coverage rate.

KEY FEATURES

- Low VOC Formulation
- Low Odor
- Vapor Barrier Performance
- High MVE & RH Tolerance
- Low Permeance
- High Strength
- Improves Coating Longevity
- Increases Adhesion Reliability
- Uniform Film Formation
- Reduces Failures

COLOR OPTIONS

CLEAR

APPLICATION CONSIDERATIONS

- Product must be 17-18 mils DFT for permeance performance
- Substrate must have moisture vapor transmission <20 lbs/1000Ft^2/24 hr
- Do not thin, add pigments or broadcast aggregates into MV 2112
- Not a finish coat and will not bridge substrate cracking

PHYSICAL CHARACTERISTICS

SOLIDS CONTENT	100%
VOLUMETRIC MIX RATIO	2A:1B
VISCOSITY	500-1,000 cps
POT LIFE 1.5 GAL MASS	25-35 Minutes @ 70°F
WORKING TIME	30-35 Minutes @ 70°F
TACK FREE	5-9 Hours @ 70°F
RECOAT WINDOW	5-24 Hours @ 70°F
LIGHT FOOT TRAFFIC	12 Hours @ 70°F
FULL CURE	5-7 Days
APPLICATION TEMPERATURE	60°F - 90°F | RH <90%
COVERAGE RATE	90 ft^2/gal @ 17-18 Mils WFT
SHELF LIFE UNOPENED	1 Year
PACKAGING	3 Gallon Kit | 15 Gallon Kit

TECHNICAL SPECIFICATIONS

HARDNESS	ASTM D2240	Shore D 75-80
FLEXURAL STRENGTH	ASTM D790	12,200 psi
ADHESION	ASTM D7234	350 psi | Concrete Failure
ABRASION RESISTANCE CS-17 WHEEL, 1000G LOAD, 500 CYCLES	ASTM D4060	36 mg loss
PERMEANCE	ASTM E96	<0.10 perms
VAPOR RETARDER	ASTM E96	Class I
MOISTURE VAPOR TRANSMISSION RESISTANCE	ASTM F1869	20 lbs/1000ft^2/hr

REQUIREMENTS

- The substrate should have a compressive strength of at least 3,500 psi
- The substrate should have a Moisture Vapor Emission Rate (MVER) of less than 20 lbs per ASTM F1869 and a Relative Humidity (RH) below 95% per ASTM F2170. If using Tramex Moisture Meter, note that products capabilities exceeds that of meter.
- The substrate should have a pH level in the range of 6 to 9.
- Concrete must be structurally sound and free of all contaminants and bond breakers.
- Concrete should be mechanically prepared and profiled to achieve a Concrete Surface Profile (CSP) between levels 2 and 4, in accordance with ICRI 310.2R
- Mask all perimeter areas to protect surfaces at coating terminations. Saw-cut and key all termination points as required.
- Ensure all depressions, divots, and cracks are properly profiled, cleaned of dust and contaminants, and repaired to prevent defects from showing through the coating.
- Preserve all dynamic joints, while static joints can be filled. When necessary, use dynamic joints as starting and ending points during the application process.
- Ambient and substrate temps should be above 60°F and a minimum of 5°F above Dew Point.
- Product temps should be between 70-80°F.
- Ambient relative humidity should not exceed 80% during coating application.

PRECAUTIONS

- Refer to Safety Data Sheets (SDS) for safety precautions.
- Safety precautions must be followed during storage, handling, and use.
- Personal Protective Equipment (PPE) shall be worn at all times of the application process including but not limited to long sleeve shirts, safety glasses, nitrile gloves and properly fitted NIOSH respirators.
- All sources of ignition must be turned off, and the area should be properly and adequately ventilated during both the application and curing processes.
- The mixing area should be located on or near the project site and securely covered with plastic, cardboard, or a tarp to protect against drips and spills.
- Stage all materials, tools, and cleaning supplies in a shaded area—out of direct sunlight—within the mixing area before beginning the application process.
- Clean the mixing station and application tools after use with a VOC-exempt solvent. Always follow all legal, health, and safety guidelines when handling or storing solvents and materials, especially when working in confined spaces.
- Dispose of empty packaging and other waste in accordance with all applicable federal, state, provincial, and local regulations.

MIXING PROCEDURE

1. Pre condition product to temperature between 70°-80°F for best results
2. Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 30 seconds until thoroughly homogeneous
3. Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
4. Transfer A-component and B-component at a mix rate of 2A:1B by volume and mix for 2-3 minutes being sure to scrape sides of the bucket ensuring both components are thoroughly blended

- Do not mix at high RPMs or air entrapment may occur
- Do not pull mixing paddle in and out of the mix during process or air entrapment may occur
- Do not add pigment or solvent

COVERAGE RATES & WORKING TIMES

- Primer: 90 Ft² / Gal @ 18 Mils WFT

- 45-50 Minute Working Time @ 52°F
- 30-35 Minute Working Time @ 70°F
- 20-25 Minute Working Time @ 88°F

- Surface porosity, temperatures, and application method will cause coverage rate to vary.
- Ambient temps & humidity, product and surface temps, airflow and mix time affect overall working times

APPLICATION PROCEDURE

1. Cut-in edges using a chip brush. Do not allow wet edges to stand more than 5 minutes ahead of application of main body of floor.

- Epoxy sets faster in mass; Mixed material should not remain in bucket
- Be mindful of environmental variables and affects on estimated working time

2. Pour mixed material across the surface. Use 15-20 mil notched squeegee to gauge material across surface achieving desired thickness.

- Do not flip bucket upside down and allow to sit on surface
- Ensure you maintain a wet edge throughout application process
- Follow recommended coverage rates and wet film thickness

3. Pre-wet 18” x 3/8” nap roller and back roll the surface wall to wall with 50% overlap. Back roll should be perpendicular to your first pass

- Do not overwork material
- Ensure back roll is always either wall to wall or joint to joint for a consistent finish

4. Allow coating to dry : 10-18 Hours @ 52°F
   5-9 Hours @ 70°F
   3-5 Hours @ 88°F
   - Do not force dry
   - Recoat: 5-24 Hours @ 75°F

- Surface will need to be abraded using 80-100 sanding screen prior to recoat after the 24 hour window
  - Light Traffic: 14 Hours @ 75°F
  - Heavy Traffic: 24 Hours @ 75°F
  - Equipment Traffic: 72 Hours @ 75°F
- Lower temps will further delay traffic time

MAINTENANCE

Inspect the installed floor by spot-cleaning and repairing any damaged or cracked areas as needed. To extend the life of the flooring system, implementing a daily maintenance program is strongly recommended to help ensure the floor remains safe for its intended use.

TECHNICAL SUPPORT

For questions, please contact a Floorguard Products representative. Additional support materials are available from Floorguard Products. Visit floorguardproducts.com or reach out to us directly for further resources.

DISCLAIMER

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